## In the Claims

1. (Original) A benzomorpholine derivative or pharmaceutically acceptable salt thereof represented by formula I,

$$\begin{array}{c}
R^4 \\
O \\
N \\
A
\end{array}$$

$$\begin{array}{c}
R^2 \\
I \\
O
\end{array}$$

$$\begin{array}{c}
I \\
I \\
O
\end{array}$$

wherein

A is C<sub>2-4</sub> alkylene, C<sub>2-4</sub> alkenylene, or C<sub>2-4</sub> alkynylene,

R<sup>1</sup> is:

- (1) unsubstituted aryl or heteroaryl, or aryl or heteroaryl substituted with one or a plurality of substituents independently selected from the following group,
- a) C<sub>1-5</sub> alkyl, b) C<sub>1-5</sub> alkoxy c) C<sub>3-8</sub> cycloalkyl, d) C<sub>1-5</sub> haloalkyl, e) phenyl, f) phenoxy, g) hydroxyl,
- h)  $C_{1-5}$  hydroxyalkyl, i)  $C_{1-5}$  haloalkyloxy, j) mercapto, k)  $C_{1-5}$  alkylthio, l)  $C_{1-5}$  haloalkylthio, m) halogen, n) cyano, o) nitro, p) amino, q)  $C_{1-5}$  alkylamino, r)  $C_{2-10}$  dialkylamino, s) acyl, t) carboxyl, u)

C<sub>2-6</sub> alkyloxycarbonyl, v) mesyl, w) trifluoromethanesulfonyl, and x) tosyl; or

- (2) unsubstituted  $C_{1-5}$  alkyl,  $C_{3-8}$  cycloalkyl,  $C_{2-10}$  alkenyl,  $C_{4-10}$  cycloalkenyl, or  $C_{2-10}$  alkynyl, or  $C_{1-5}$  alkyl,  $C_{3-8}$  cycloalkyl,  $C_{2-10}$  alkenyl,  $C_{4-10}$  cycloalkenyl, or  $C_{2-10}$  alkynyl substituted with one or a plurality of substituents independently selected from the following group,
- a) phenyl, b) hydroxyl, c)  $C_{1-5}$  alkyl, d)  $C_{3-8}$  cycloalkyl, e)  $C_{1-5}$  haloalkyl, and f) halogen;
- R<sup>2</sup> is unsubstituted aryl or heteroaryl, or aryl or heteroaryl substituted with one or a plurality of substituents independently selected from the following group,
- a) C<sub>1-5</sub> alkyl, b) C<sub>1-5</sub> alkoxy, c) C<sub>3-8</sub> cycloalkyl, d) C<sub>1-5</sub> haloalkyl, e) phenyl, f) phenoxy, g) hydroxyl,
- h)  $C_{1-5}$  hydroxyalkyl, i)  $C_{1-5}$  haloalkyloxy, j) mercapto, k)  $C_{1-5}$  alkylthio, l)  $C_{1-5}$  haloalkylthio, m) halogen, n) cyano, o) nitro, p) amino, q)  $C_{1-5}$  alkylamino, r)  $C_{2-10}$  dialkylamino, s) acyl, t) carboxyl, u)  $C_{2-6}$  alkyloxycarbonyl, v) mesyl, w) trifluoromethanesulfonyl, and x) tosyl;
- $R^3$  is hydrogen, halogen,  $C_{1-5}$  alkyl, or  $C_{1-5}$  alkoxy;  $R^4$  is  $-X-(CH_2)n-COOR^5$ , and X is -O-, -S-, or  $-CH_2-$ ;  $R^5$  is hydrogen or  $C_{1-5}$  alkyl; and n is an integer that is 1, 2, or 3.

2. (Previously Presented) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 1 represented by formula (II),

$$\begin{array}{cccc}
R^4 & & & \\
O & & & R^3 \\
O & & & & R^2 \\
N & & & & & R^1
\end{array}$$
(II)

wherein A, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> are as defined in claim 1.

- 3. (Original) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein A is ethylene.
- 4. (Original) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein R<sup>1</sup> is unsubstituted aryl or heteroaryl, or aryl or heteroaryl substituted with one or a plurality of substituents which are as defined in claim 1.
- 5. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim [[4]]1, wherein  $R^1$  is unsubstituted phenyl, furyl, thienyl, or pyridyl[[,]]; or  $R^1$  is substituted phenyl, furyl, thienyl, or pyridyl [[substituted]] with one or a plurality of substituents which are as defined in claim 1.
- 6. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 5, wherein  $R^1$  is unsubstituted phenyl, furyl, thienyl, or pyridyl[[,]]; or  $\underline{R}^1$  is substituted phenyl, furyl, thienyl, or pyridyl [[substituted]] with one or a plurality of substituents independently selected from the following group,
- a)  $C_{1-5}$  alkyl, b)  $C_{1-5}$  alkoxy, c)  $C_{1-5}$  haloalkyl, d) hydroxyl, e)  $C_{1-5}$  haloalkyloxy, f)  $C_{1-5}$  alkylthio, g)  $C_{1-5}$  haloalkylthio, h) halogen, i) cyano, j)  $C_{2-10}$  dialkylamino, k) acetyl, l)  $C_{2-6}$  alkyloxycarbonyl, m) mesyl, n) trifluoromethanesulfonyl, and o) tosyl.
- 7. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 6, wherein  $R^1$  is unsubstituted phenyl, furyl, thienyl, or pyridyl; or  $\underline{R^1}$  is substituted phenyl, furyl, thienyl, or pyridyl [[substituted]] with one or a plurality of substituents independently selected from the following group,
- a)  $C_{1-5}$  alkyl, b)  $C_{1-5}$  alkoxy, c)  $C_{1-5}$  haloalkyl, d) hydroxyl, h) halogen, and i) cyano.
- 8. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein  $R^2$  is unsubstituted phenyl or pyridyl[[,]]; or  $R^2$  is substituted

phenyl or pyridyl [[substituted]] with one or a plurality of substituents which are as defined in claim 1.

- 9. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 8, wherein  $R^2$  is unsubstituted phenyl or pyridyl[[,]]; or  $R^2$  is substituted phenyl or pyridyl [[substituted]] with one or a plurality of substituents independently selected from the following group,
- a)  $C_{1-5}$  alkyl, b)  $C_{1-5}$  alkoxy, c)  $C_{1-5}$  haloalkyl, d) hydroxyl, e)  $C_{1-5}$  haloalkyloxy, f)  $C_{1-5}$  alkylthio, g)  $C_{1-5}$  haloalkylthio, h) halogen, i) cyano, j) amino, k)  $C_{2-10}$  dialkylamino, l) acyl, m)  $C_{2-6}$  alkyloxycarbonyl, n) mesyl, o) trifluoromethanesulfonyl, and p) tosyl.
- 10. (Currently Amended) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 9, wherein  $R^2$  is unsubstituted phenyl or pyridyl[[,]]; or  $R^2$  is substituted phenyl or pyridyl [[substituted]] with one or a plurality of substituents independently selected from the following group,
- a)  $C_{1-5}$  alkyl, b)  $C_{1-5}$  alkoxy, c)  $C_{1-5}$  haloalkyl, d)  $C_{1-5}$  haloalkyloxy, e)  $C_{1-5}$  alkylthio, f) halogen, and g)  $C_{2-10}$  dialkylamino.
- 11. (Original) The benzomorpholine derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein X is -O-.
- 12. 16. (Cancelled)
- 17. (Previously Presented) A pharmaceutical composition comprising:
- a pharmaceutically acceptable carrier; and
- a benzomorpholine derivative or pharmaceutically acceptable salt thereof represented by formula I,

$$\begin{array}{c}
R^4 \\
O \\
\downarrow \\
N \\
A
\end{array}$$

$$\begin{array}{c}
R^2 \\
\downarrow \\
O
\end{array}$$

$$\begin{array}{c}
R^1 \\
O
\end{array}$$

wherein

A is  $C_{2-4}$  alkylene,  $C_{2-4}$  alkenylene, or  $C_{2-4}$  alkynylene,

R<sup>1</sup> is:

(1) unsubstituted aryl or heteroaryl, or aryl or heteroaryl substituted with one or a plurality of substituents independently selected from the following group,

- a)  $C_{1-5}$  alkyl, b)  $C_{1-5}$  alkoxy c)  $C_{3-8}$  cycloalkyl, d)  $C_{1-5}$  haloalkyl, e) phenyl, f) phenoxy, g) hydroxyl,
- h)  $C_{1-5}$  hydroxyalkyl, i)  $C_{1-5}$  haloalkyloxy, j) mercapto, k)  $C_{1-5}$  alkylthio, l)  $C_{1-5}$  haloalkylthio, m)
- halogen, n) cyano, o) nitro, p) amino, q) C<sub>1-5</sub> alkylamino, r) C<sub>2-10</sub> dialkylamino, s) acyl, t) carboxyl, u)
- C<sub>2-6</sub> alkyloxycarbonyl, v) mesyl, w) trifluoromethanesulfonyl, and x) tosyl; or
- (2) unsubstituted  $C_{1-5}$  alkyl,  $C_{3-8}$  cycloalkyl,  $C_{2-10}$  alkenyl,  $C_{4-10}$  cycloalkenyl, or  $C_{2-10}$  alkynyl, or  $C_{1-5}$
- alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>4-10</sub> cycloalkenyl, or C<sub>2-10</sub> alkynyl substituted with one or a
- plurality of substituents independently selected from the following group,
- a) phenyl, b) hydroxyl, c) C<sub>1-5</sub> alkyl, d) C<sub>3-8</sub> cycloalkyl, e) C<sub>1-5</sub> haloalkyl, and f) halogen;
- R<sup>2</sup> is unsubstituted aryl or heteroaryl, or aryl or heteroaryl substituted with one or a plurality of substituents independently selected from the following group,
- a) C<sub>1-5</sub> alkyl, b) C<sub>1-5</sub> alkoxy, c) C<sub>3-8</sub> cycloalkyl, d) C<sub>1-5</sub> haloalkyl, e) phenyl, f) phenoxy, g) hydroxyl,
- h)  $C_{1-5}$  hydroxyalkyl, i)  $C_{1-5}$  haloalkyloxy, j) mercapto, k)  $C_{1-5}$  alkylthio, l)  $C_{1-5}$  haloalkylthio, m)
- halogen, n) cyano, o) nitro, p) amino, q) C<sub>1-5</sub> alkylamino, r) C<sub>2-10</sub> dialkylamino, s) acyl, t) carboxyl, u)
- C<sub>2-6</sub> alkyloxycarbonyl, v) mesyl, w) trifluoromethanesulfonyl, and x) tosyl;
- $R^3$  is hydrogen, halogen,  $C_{1-5}$  alkyl, or  $C_{1-5}$  alkoxy;  $R^4$  is  $-X-(CH_2)n-COOR^5$ , and X is -O-, -S-, or  $-CH_2-$ ;  $R^5$  is hydrogen or  $C_{1-5}$  alkyl; and n is an integer that is 1, 2, or 3.
- 18.-21. (Cancelled)